

*ANTIBODIES DIRECTED TO MONOCYTE CHEMO-ATTRACTANT
PROTEIN-1 (MCP-1) AND USES THEREOF*
Gudas et al.
Appl. No.: Not Assigned Atty Docket: ABGENIX.091A

Figure 1

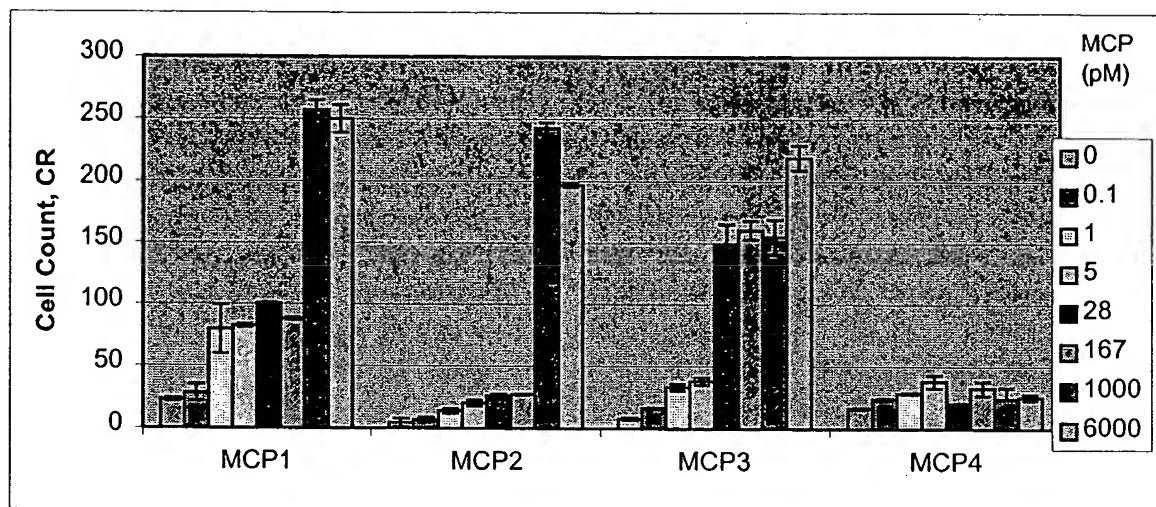


Figure 2

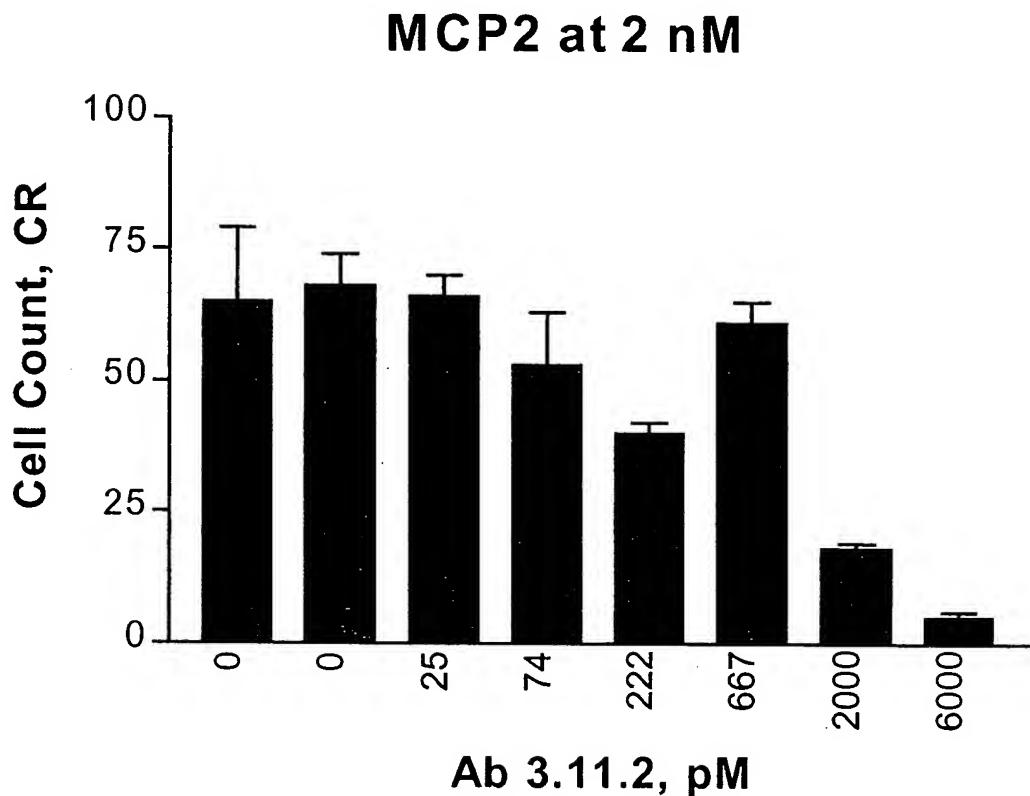


Figure 3

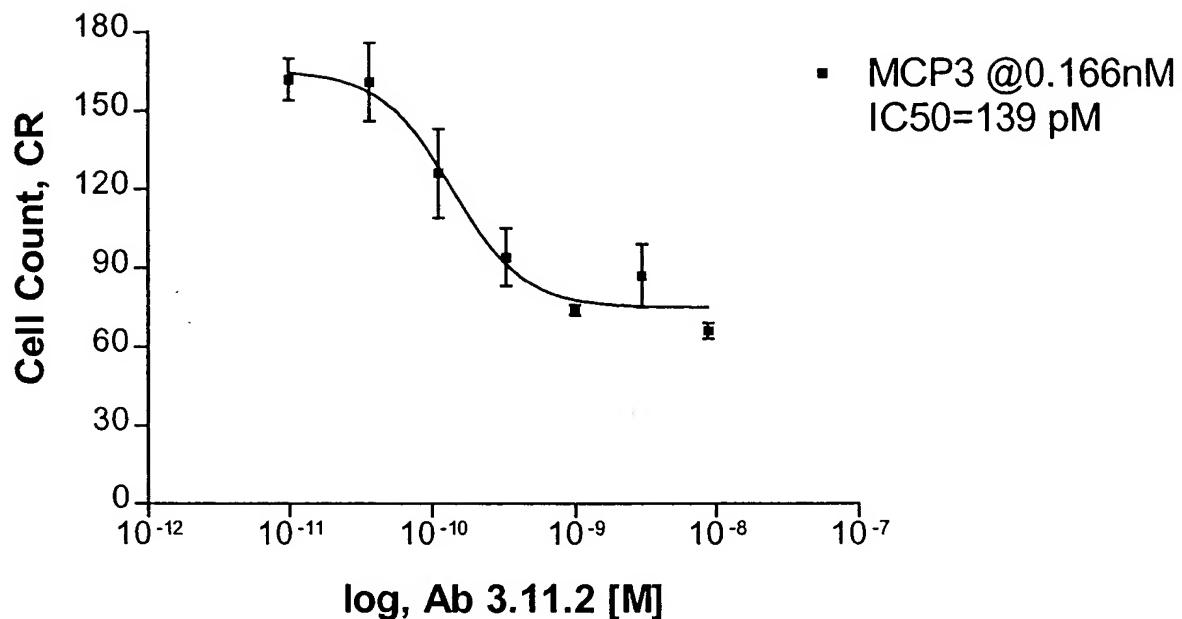
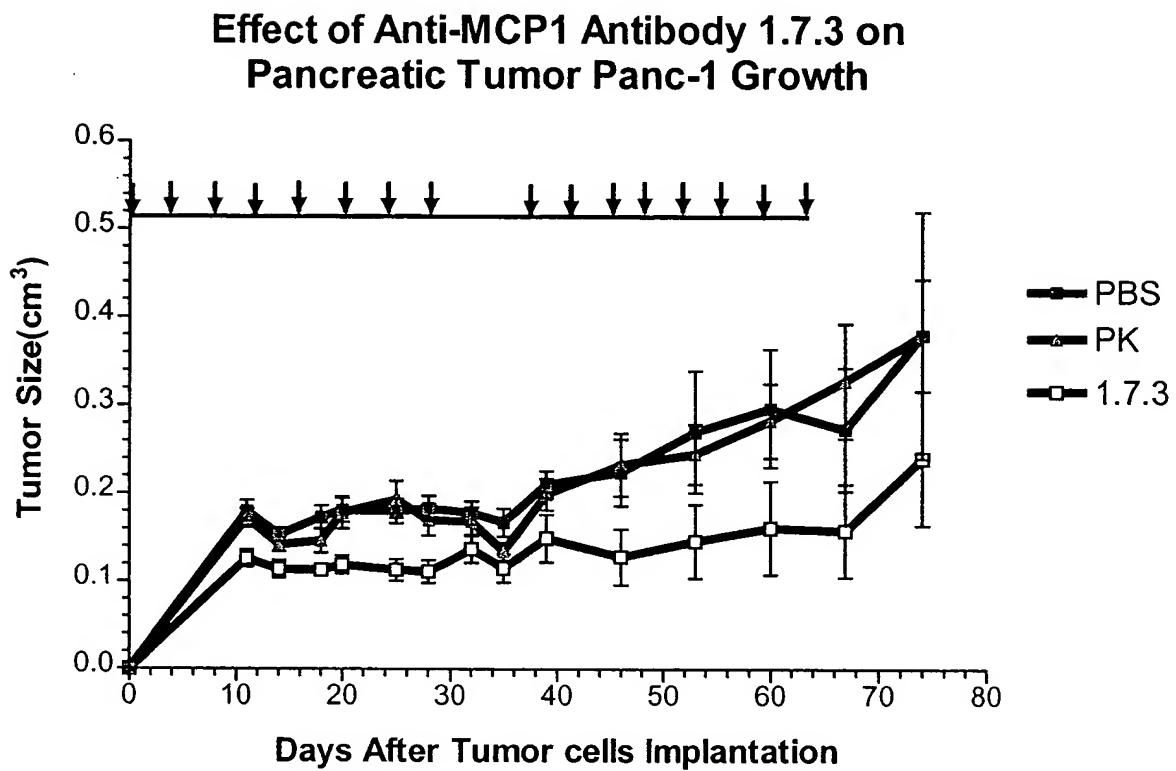


Figure 4



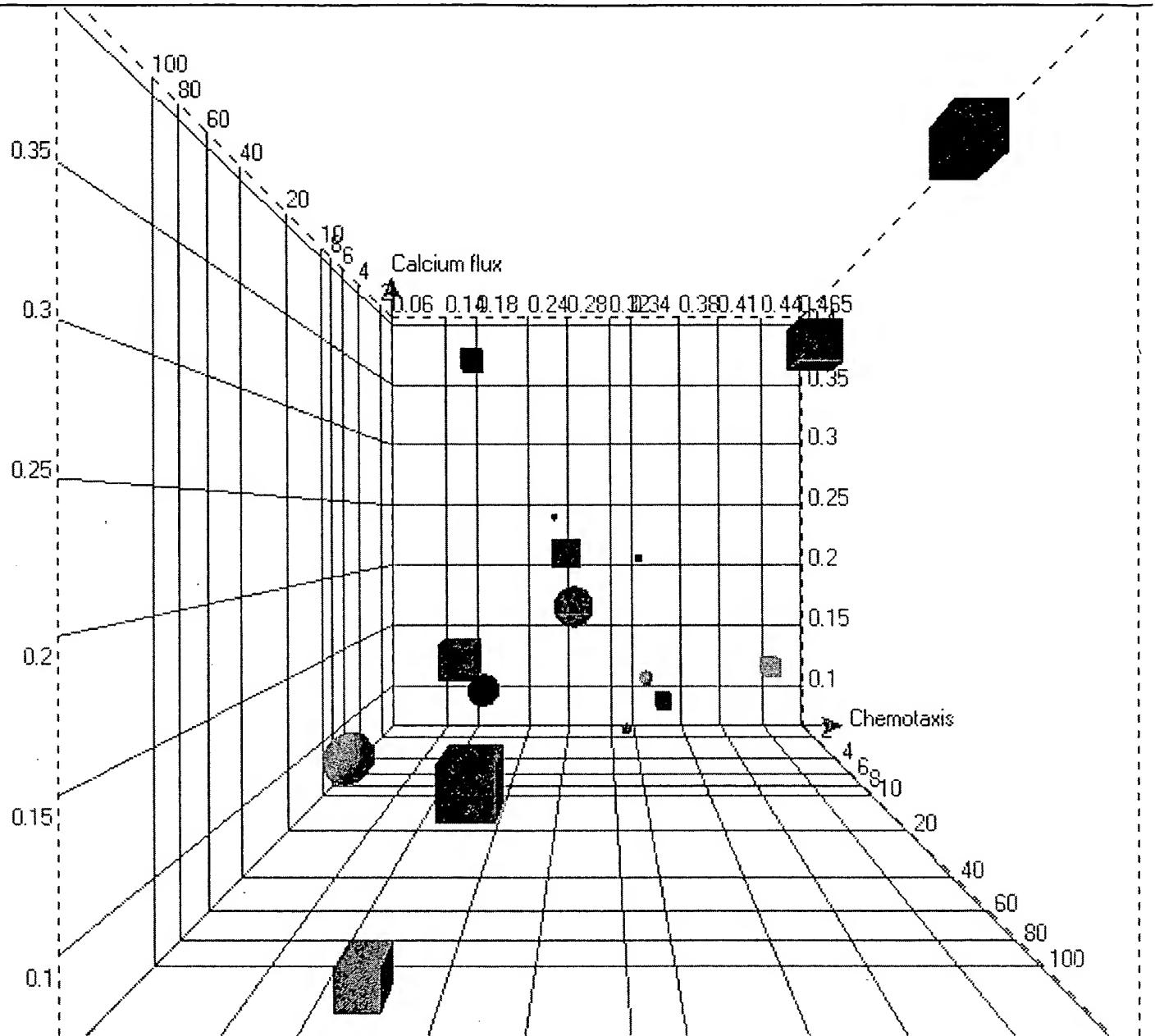
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Figure 5

MCP1 mAbs



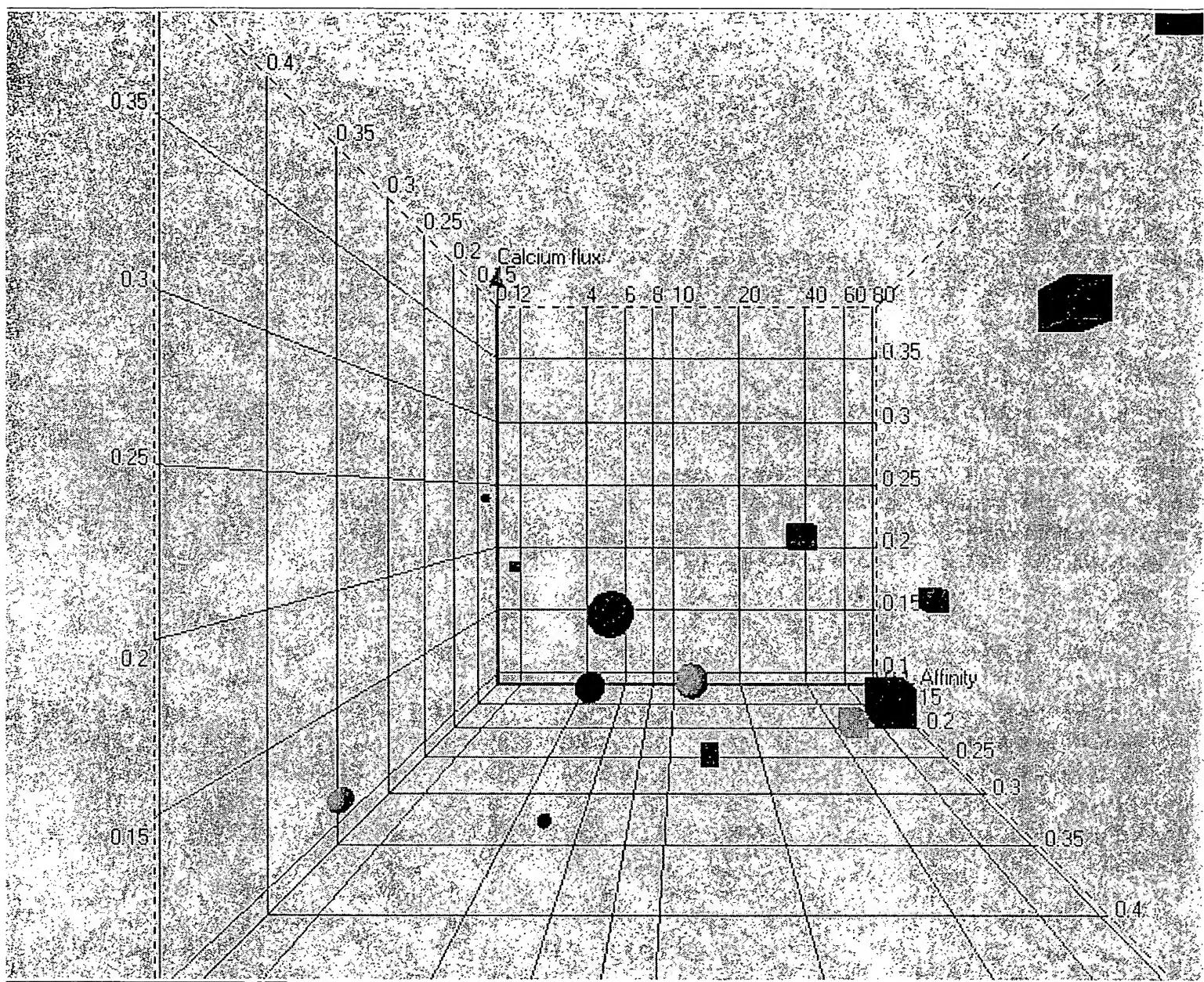
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Figure 6

Scatter Plot



*ANTIBODIES DIRECTED TO MONOCYTE CHEMO-ATTRACTANT
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Figure 7A

Alignment of sequences using VH1-24

| | CDR1 | CDR2 |
|----------------------|--|------|
| VH1-24 | QVQLVQSGAEVKPGASVKVSCKVSGYTLTELSMHWRQAPGKGLEWMGGFDPEDGETIY | |
| MCP1-1.1.1_HC | QVQLVQSGAEVKPGASVKVSCKVSGYTLTELSMHWRQAPGNGLEWMGGFDPEDGETIY | |
| MCP1-1.10_HC | QVQLVQSGAEVKPGASVKVSCKVSGYTLTELSMHWRQAPGKGLEWMGGFDPEDGETIY | |
| MCP1-1.11_HC | QVQLVQSGAEVKPGASVKVSCKVSGYTLTELSMHWRQAPGKGLEWMGGFDPEDGETIY | |
| MCP1-1.12_HC | QVQLVQSGAEVKPGASVKVSCKVSGYTLTELSMHWRQAPGKGLEWMGGFDPEDGETIY | |
| MCP1-1.13_HC | QVQLVQSGAEVKPGASVKVSCKVSGHTLTESMHWRQAPGKGLEWMGGFDPEDGETIY | |
| MCP1-1.18_HC | QVQLVQSGAEVKPGASVKVSCKVSGYTLTELSMHWRQAPGKGLEWMGGFDPEDGETIY | |
| MCP1-1.2_HC | QVQLVQSGAEVKPGASVKVSCKVSGYTFTELSMHWRQAPGKGLEWMGGFDPEDGETSY | |
| MCP1-1.3_HC | QVQLVQSGAEVKPGASVKVSCKVSGYTLTELSMHWRVRIPGKGLEWMGGFDPEDGETIY | |
| MCP1-1.5.1_HC | QVQLVQSGAEVKPGASVKVSCKVSGYTLTELSMHWRQAPGKGLEWMGGFDPEDDETIY | |
| MCP1-1.6_HC | QVQLVQSGAEVKPGASVKVSCKVSGYTLTELSMHWRQAPGKGLEWMGGFDPEDGETIY | |
| MCP1-1.7_HC | QVQLVQSGAEVKPGASVKVSCKVSGYTLTELSMHWRQAPGKGLEWMGGFDPEDGETIY | |
| MCP1-1.8_HC | QVQLVQSGAEVKPGASVKVSCKVSGHIFTESLISHWVRQAPGKGLEWMGGFDPEDGETIY | |
| MCP1-1.9_HC | QVQLVQSGAEVKPGASVKVSCKVSGYTLTELSMHWRQAPGKGLEWMGGFDPEDGETIN | |
| MCP1-2.3_HC | QVQLVQSGAEVKPGASVKVSCKVSGYTLTELSMHWRQAPGKGLEWMGGFDPEDDETIY | |
| MCP1-3.10_HC | QVQLVQSGAEVKPGASVKVSCKVSGYTLTELSMHWRQAPGKGLEWMGGFDPEDGETIY | |
| MCP1-3.15_HC | QVQLVQSGAEVKPGASVKVSCKVSGDTLTESMHWRQAPGKGLEWMGGFDPEDGETIY | |
| MCP1-3.16_HC | QVQLVQSGAEVKPGASVKVSCKVSGYTLTDLSMHWRQAPGKGLEWMGGFDPEDGETIY | |
| MCP1-3.2_HC | QVQLVQSGAEVKPGASVKVSCKVSGYTLSELSMHWRQAPGKGLEWMGGFDPEDGEIH | |
| MCP1-3.4_HC | QVQLVQSGAEVKPGASVKVSCKVSGYTLTELSMHWRQAPGKGLEWMGGFDPEDGETMY | |
| MCP1-3.5_HC | QVQLVQSGAEVKPGASVKVSCKVSGYTLSELSMHWRQAPGKGLEWMGGFDPEDDETIY | |
| MCP1-3.6_HC | QVQLVQSGAEVKPGASVKVSCKVSGYTLTELSMHWRQAPGKGLEWMGGFDPEDGETIY | |
| MCP1-3.7_HC | QVQLVQSGAEVKPGASVKVSCKVSGYTLTELSMHWRQTPGKGLEWMGGFDPEDGETIY | |
| MCP1-3.8_HC | QVQLVQSGAEVKPGASVKVSCKVSGYTLTELSMHWRQAPGKGLEWMGGFDPEDGETIY | |
| MCP1-4.5_HC | QVQLVQSGAEVKPGASVKVSCKVSGYTLTELSMHWRQAPGKGLEWMGGFDPENGETIH | |
| MCP1-4.6.3_HC | QVQLVQSGAEVKPGASVKVSCKVSGYTLTELSMHWRQAPGKGLEWMGGFDPEDGETIY | |
| MCP1-4.7_HC | QVQLVQSGAEVKPGASVKVSCKVSGYTLTELSMHWRQAPGKGLEWMGGFDPEDGETIY | |
| MCP1-5.3_HC | QVQLVQSGAEVKPGASVKVSCKVSGYTLSELSMHWRQAPGKGLEWMGGFDPEDGETIY | |
| MCP1-4.8.1_HC | QVQLVQSGAEVKPGASVKVSCKVSGYTLTELSMHWRQAPGKGLEWMGGFDPEDGETIY | |

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Figure 7A (cont.)

| | CDR2 | CDR3 |
|---------------|------|---|
| VH1-24 | | AQKFQGRVVTMTEDTSTD TAYMELSSLRSEDTAVYYCAT----- |
| MCP1-1.1.1_HC | | AQKFQGRVVMTEDPSTD TAYMELSSLRSEDTAVYYCATNEFWSGYF-----DYWGQGTLV |
| MCP1-1.10_HC | | AQKFQGRVVTMTEDTSTD TAYMELSSLRSEDTAVYYCATNEFWSGYF-----DYWGQGTLV |
| MCP1-1.11_HC | | AQKFQGRVVTMTEDTSTD TAYMELSSLRSEDTAVYYCATNDFWSGYF-----DYWGQGTLV |
| MCP1-1.12_HC | | AQKFQGRVVTMTEDTSTD TAYMELSSLRSEDTAVYYCATNDFWSGYF-----NYWGQGTLV |
| MCP1-1.13_HC | | AQKFQDRVVTMTEDTSTD TAYMELSSLRSEDTAVYYCATNDFWSGYF-----DCWGQGTLV |
| MCP1-1.18_HC | | AQKFQGRVVTMTEDTSTD TAYMELSSLRSEDTAMYYCATRE FWTGYF-----DHWGQGTLV |
| MCP1-1.2_HC | | AQKFGRVVTMTEDTSTD TAHMELSSLRSEDTAVYYCATNDFWSGYF-----DYWGQGTLV |
| MCP1-1.3_HC | | AQKFQGRVVTMTEDTSTD TAYMELSSLRSEDTAVYYCATNDFWSGYF-----GHWGQGTLV |
| MCP1-1.5.1_HC | | AQKFQGRVVTMTEDTSTD TAYMELSSLRSEDTAVYFCATNDFWSGYF-----DCWDQGTLV |
| MCP1-1.6_HC | | AQKFQGRVVTMTEDTSTD TAYMELSSLRSEDTAVYYCATWSGIYLA F-----DIWGQGTMV |
| MCP1-1.7_HC | | AQKFQGRVSMTEDTSTD TAYMELSSLRSEDTAVYFCATNEFWSGYF-----DYWGQGTLV |
| MCP1-1.8_HC | | AQKFQGRVVTMTEDTSTD TAYMELSSLRSEDTAVYYCATNDFWSGYF-----DYWGQGTLV |
| MCP1-1.9_HC | | AQKFQGRVVTMTEDTSTD TGYMELSSLRSEDTAVYYCATDPGGYSGYF-----DHWGQGTLV |
| MCP1-2.3_HC | | AQKFQGRVVTMTEDTSTHTAYMELSSLRSEDTAVYYCATHDFWSAYF-----YYWGQGTLV |
| MCP1-3.10_HC | | AQKFQGRVMMTEDTSTD TAFMDLSSLRSEDTAVYYCATDDMLTPHYLYFGMDVWQGTTV |
| MCP1-3.15_HC | | ARKFQGRVVTMTEDTSTD TAYMELSSLRSEDTAVYFCATDSRGYSGYF-----DNWGQGTLV |
| MCP1-3.16_HC | | AQKFQGRVVTMTEDTSSDTAYMELSSLRSEDTAVYYCATHEFWSGYF-----DYWGQGTLV |
| MCP1-3.2_HC | | AQKFQGRVVTMTEDTSTD TAYMELSSLRSEDTAVYYCATGDFWSGYLY-----DWWGQGTLV |
| MCP1-3.4_HC | | AQKFQGRVVTMTEDTSTD TAYMELSSLRSEDTAVYYCATDDFWSGYF-----DYWGQGTLV |
| MCP1-3.5_HC | | AQKFQGRVVTMTEDTSTD TAFMELSSLRSEDTAVYYCATHDFWSGYF-----HYWGQGTLV |
| MCP1-3.6_HC | | AQKFQGRVVTMTEDTSTD TAYMELSSLRSEDTAVYYCAIHEFWSGYF-----DYWGQGTLV |
| MCP1-3.7_HC | | AQKFQDRVVTMTEDTSTD TAYMELSSLRSEDTAVYYCATNDFWTGYY-----DYWGQGTLV |
| MCP1-3.8_HC | | AQKFQGRVIMTEDTSTD TAYMELSSLRSEDTAVYYCATDQGGYSGYF-----DCWGQGTLV |
| MCP1-4.5_HC | | AQKFQGRVVTMTEDTSTD TAYMELSSLRSEDTAVYYCATDDFWSGYF-----DYWGQGTLV |
| MCP1-4.6.3_HC | | AQKFQGRVVTMTEDTSTD TAYMELSSLRSEDTAVYYCATDDFWSGYF-----DYWGQGTLV |
| MCP1-4.7_HC | | AQKFQGRVVTMTEDTSTD TAYMELSSLRSEDTAVYYCATDDFWSGYF-----DYWGQGTLV |
| MCP1-5.3_HC | | AQKFQGRVVTMTEDTSTD TAYMELSSLRSEDTAVFYCATKREYSGYF-----DYWGQGTLV |
| MCP1-4.8.1_HC | | AQKFQGRVVTMTEDTSTD TAYMELSSLRTEDTAVYYCTTDDFWSGYF-----DYWGQGTLV |

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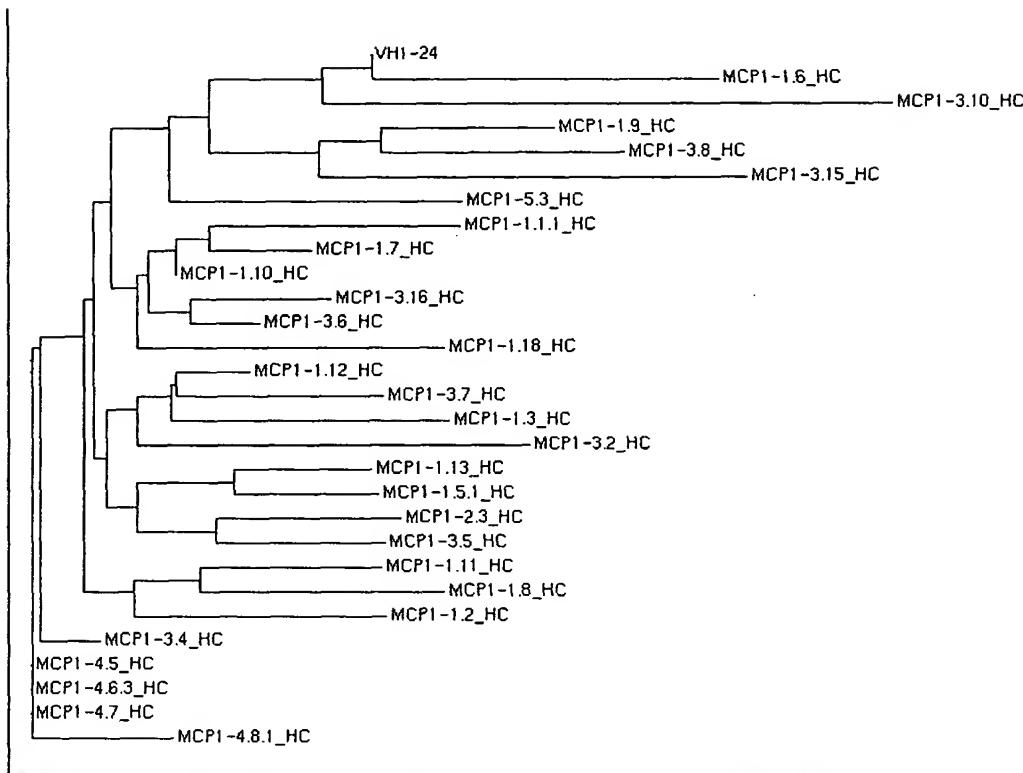
Figure 7A (cont.)

| | |
|---------------|-----|
| VH1-24 | --- |
| MCP1-1.1.1_HC | VSS |
| MCP1-1.10_HC | VSS |
| MCP1-1.11_HC | VSS |
| MCP1-1.12_HC | VSS |
| MCP1-1.13_HC | VSS |
| MCP1-1.18_HC | VSS |
| MCP1-1.2_HC | VSS |
| MCP1-1.3_HC | VSS |
| MCP1-1.5.1_HC | VSS |
| MCP1-1.6_HC | VSS |
| MCP1-1.7_HC | VSS |
| MCP1-1.8_HC | VSS |
| MCP1-1.9_HC | VSS |
| MCP1-2.3_HC | VSS |
| MCP1-3.10_HC | VSS |
| MCP1-3.15_HC | VSS |
| MCP1-3.16_HC | VSS |
| MCP1-3.2_HC | VSS |
| MCP1-3.4_HC | VSS |
| MCP1-3.5_HC | VSS |
| MCP1-3.6_HC | VSS |
| MCP1-3.7_HC | VSS |
| MCP1-3.8_HC | VSS |
| MCP1-4.5_HC | VSS |
| MCP1-4.6.3_HC | VSS |
| MCP1-4.7_HC | VSS |
| MCP1-5.3_HC | VSS |
| MCP1-4.8.1_HC | VSS |

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Appl. No.: Not Assigned Atty Docket: ABGENIX.091A

Figure 7B

Dendrogram:



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Figure 8A

Alignment of sequences using VK-B3

| | CDR1 | CDR2 |
|-------------------------|---|------|
| VK-B3 | DIVMTQSPDSLAVSLGERATINCKSSQSVLYSSNNKNYLAWYQQKPGQP PKLIIYWASTR | |
| MCP1-1.1.1_LC | DIVMTQSPDSLAMSLGERATINCKSSQSVLYSSNNKNYLWVYQQKPGQP PKLIIYWASIR | |
| MCP1-1.10_LC | DIVMTQSPASLAESLGERATINCKSSQSVLYSSNNKNYLWVYQQKLGQP PKLIIYWASTR | |
| MCP1-1.11_LC | DIVMTQSPDSLAVSLGERATINCKSSQSQTVLVYSSNNKNYLWVYQQKSGQP PKLIIHWASIR | |
| MCP1-1.12_LC | DIVMTQSPDSLAVSLGERATINCKSSQSVLYSSNNKNYLWVYQQKPGQP PKLIIYWASIR | |
| MCP1-1.13_LC | DIVMTQSPDSLAVCLGERATINCKSSQSVLYSPNNKNFLWVYQQRPGQP PKLIIYWASTR | |
| MCP1-1.14.1.1_LC | DIVMTQSPDSLAVSLGERATINCKSSQSVLYSSNNKNYIVWYQQKPGQP PKLIIYWTSTR | |
| MCP1-1.18_LC | DIVMTQSPDSLAVSLGERATINCKSSQSVLYSSNNKNYLWVYQQKPGQP PKLIIYWASIR | |
| MCP1-1.3_LC | DIVMTQSPDSLAVSLGERATINCKSSQSVLYSSNNKNYLAWYXQKPGQP PKLIIYWTYIR | |
| MCP1-1.5.1_LC | DIVMTQSPDSLAAVLGERATINCKSSQSVLYRSNNKNYLWVYQQKPGQP PKLIIYWASIR | |
| MCP1-1.7_LC | DIVMTQSPDSLAVSLGERATINCKSSQSVLYSSNNKNYLWVYQQRPGQP PKLIIYWASTR | |
| MCP1-1.8_LC | DIVMTQSPGSLAVSLGERATINCKSSQSILFRSNNKNYLWTWYQQKPGQP PKLIIYWASIR | |
| MCP1-1.9_LC | DIVMTQSPDFLAVSLGERPTINCKSSQSVFYSSNNKNYLWVYQQKPGQP PKLIIYWASTR | |
| MCP1-2.3_LC | DIVMTQSPDSLAVSLGERATINCKSSQSVLYGSNNNSYLA WYQQKPGQP PKLIIYWASTR | |
| MCP1-3.14.1.1_LC | DIVMTQSPDSLAVSLGERAAINCKSSQSQTVL YSSNNKNYLWVYQQKPGQP PKLIIYWASTR | |
| MCP1-3.15_LC | DIVMTQSPDSLAVSLGERATINCKSSQSVLYSSNNNN LWVYQQKPGQP PKLIIYWASTR | |
| MCP1-3.16_LC | DIVMTQSPDSLAVSLGERATINCKSSQSVLFSSNN KSYLTWYQQKPGQP PKLIIIFWASIR | |
| MCP1-3.4_LC | DIVMTQSPDSLAVSLDERATINCKSSQSVL YSPNQKNYLWVYQQKPGQP PKLIIYWASIR | |
| MCP1-3.5_LC | DIVMTQSPDSLAVSLGERATINCKSSQSVL YSSDNKSYLVWYQQKPGQP PKVLIYWASIR | |
| MCP1-3.6_LC | DIVMTQSPDSLAVSLGERATINCKSSL SVLYSSNNKNYLWVYLQKPGQP PKLIIYWASTR | |
| MCP1-3.7_LC | DIVMTQSPDSLAVSLGERATINCKSSQSVL YSSNNKNYLWVYQQKPGQP PKTLLIYWASTR | |
| MCP1-3.8_LC | DIVMTQSPDSLAVSLGERATINCKSSQSILY SSNNKNYLWVYQQKPGQP PKLIIYWASTR | |
| MCP1-4.5_LC | DIVMTQSPDSLAVSLGERATINCKSSQSVL YRSNNKNSYLWVYQQKLGQSP PKLIIYWASTR | |
| MCP1-4.6.3_LC | DIVMTQSPDSLAVSLGERATINCKSSQSVL YSSNNKNYLWVYQQKPGQP PKLIIYWASTR | |
| MCP1-4.7_LC | DIVMTQSPDSLAVSLGERATINCKSSQSVL YSSNNKNYLAWYQQKPGQP PKLIIYWTSTR | |
| MCP1-4.8.1_LC | DIVMTQSPDSLAVSLGERATINCKSSQSLL YSSNSKNKNYLWVYQQKPGQP PKLIIINWASTR | |
| MCP1-5.3_LC | DIVMTQSPDSLAVSLGERATINCKSSQSVL YSSNSKNKNYLAWFQQKPGQP PKLIIYWASTR | |

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Figure 8A (cont.)

CDR2

VK-B3
MCP1-1.1.1_LC
MCP1-1.10_LC
MCP1-1.11_LC
MCP1-1.12_LC
MCP1-1.13_LC
MCP1-1.14.1.1_LC
MCP1-1.18_LC
MCP1-1.3_LC
MCP1-1.5.1_LC
MCP1-1.7_LC
MCP1-1.8_LC
MCP1-1.9_LC
MCP1-2.3_LC
MCP1-3.14.1.1_LC
MCP1-3.15_LC
MCP1-3.16_LC
MCP1-3.4_LC
MCP1-3.5_LC
MCP1-3.6_LC
MCP1-3.7_LC
MCP1-3.8_LC
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MCP1-4.7_LC
MCP1-4.8.1_LC
MCP1-5.3_LC

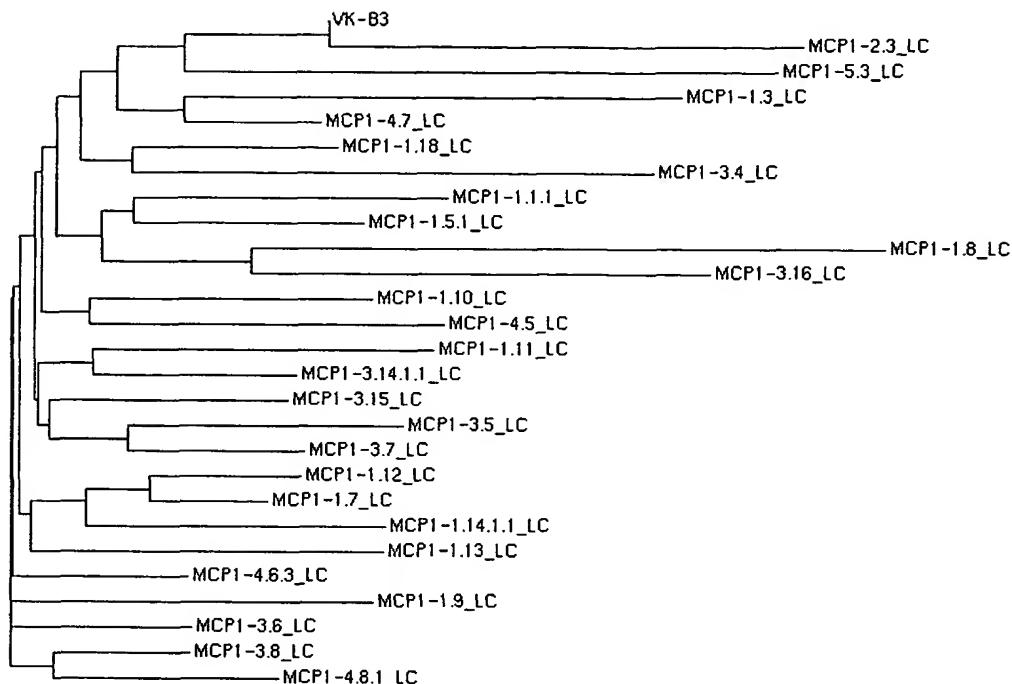
CDR3

ESGPVPDRFSGSGSGTDFLTISLQAEDVAVYYCQQYYSTP-----
ESGPVPDRFSSSGSETDFLTISLQAEDVAVYYCQQYFSSPWTFGQGKVEIK
ESGPVPDRFSGSGSGTDFLTISLQAEDVAVYYCQQYYSPWTFGQGKVEIK
ESGPVPDRFSGSGSGTDFLTISLQAEDVAVYYCQQYSSPWTFGQGKVEIK
ESGPVPDRFSGSGSGTDFLTISLQAEDVAVYYCQQYFYSPWTFGQGKVEIK
ESGPVPDRFSGSGSGTDFLTISLQAEDVAVYYCQQYSSPWTFGQGKVEIK
ESGPVPDRFSGSGSGTDFLTISLQAEDVAVYYCQQYFSSPWTFGQGKVDIK
ESGPVPDRFSGSGSGTDFLTISLQAEDVAVYYCQQYSTPLTFGGGTKEIK
ESGPVPDRFSGSGSGTDFLTISLQAEDVAVYYCQEHYSPWTFGQGKVEIK
ESGPVPDRFSGSGSGTDFLTISLQAEDVAVYFCQQYYSSPWTFGQGKVEIK
ESGPVPDRFSGSGSGTDFLTISLQAEDVAVYYCQQYFYSPWTFGQGKVEIK
ESGPVPDRFSGSGSGSNFTLTISLQAEDVAIYYCQQYYSSPWTFGQGKVEIK
ESGPVPDRFSGSGSGTDFLTISLQAEDVAVYYCQQYSSPWTFGQGKVEIK
ESGPVPDRFSGSGSGTDFLTISLQAADVAVYYCQQHYSTPCSFQGKLEIK
ESGPVPDRFSGSGSGTDFLTISLQAEDVAVYYCQQYYKSPWTFGQGKVEIK
EFGVPDRFSGSGSGTDFLTISLQAEDVAVYYCQQYYFSPWTFGQGKVEIK
ESGPVPDRISGSNSGTDLTISLQAEDAAVYYCQQYYSSPWTFGQGKVEIK
ESGPVPDRFSGSGSGTDFLTISLQAEDDVAVYYCQOSYFTPWTFGQGKVEIK
ESGPVPDRFSGSGSGTDFLTISLQAEDDVAVYYCQQYYTSPWTFGQGKVEIK
ESGPVPDRFSGSGSGTDFLTISLQAEDDVGVVYCQQYYTSPWTFGQGKVEIK
ESGPVPDRFSGSGSGTDFLTISLQAEDDVAVYYCQQYYSSPPTFGQGKVEIK
ESGPVPDRFSGSGSGTDFLTISLQAEDDVAVYYCQQYYSTPWTFGQGKVEIK
ESGPVPDRFSGSGSGTDFLTISLQAEDDVAVYYCQQYSSPTWTFGQGKVEIK
ESGPVPDRFSGSGSVTDFLTISLQAEDDVAVYYCQQYYSSPWTFGQGKVEIK
ESGPVPDRFSGSGSGTDFLTISLQAEDDVAVYYCQQYYSSPWTFGQGKVEIK
ESGPVPDRFSGSGSGTDFLTISRLQAEDDVAVYSCQQYFITPWTFGQGKVELK

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Figure 8B

Dendrogram:



ANTIBODIES DIRECTED TO MONOCYTE CHEMO-ATTRACTANT PROTEIN-1 AND THEIR USES THEREFOR

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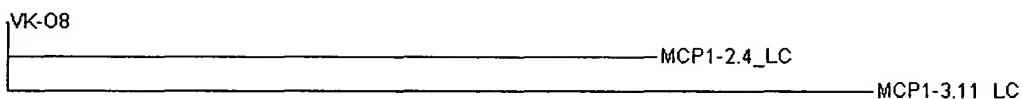
Figure 9A

Alignment of sequences using VK-O8

| | | |
|---|--|--|
| VK-08 MCP1-2.4_LC MCP1-3.11_LC | <hr/> CDR1 <hr/> <hr/> <hr/> | CDR2 <hr/> <hr/> <hr/> |
| | DIQMTQSPSSLSASVGDRVTITCQASQDISNYLNWYQQKPGKAPKLLIYDASNLETGVPS DIQMTQSPSSLSASVGDRVTITCQASQDDITTYLNWYQQKPGKAPKLLIYDASNLETGVPS DIQMTQSPSSLSASVGDRVTITCQASQDISNYLNWYQQKPGKAPKLLIYDASNLETGVPS *****:***** | |
| VK-08 MCP1-2.4_LC MCP1-3.11_LC | <hr/> CDR3 <hr/> <hr/> <hr/> | RFSGSGSGTDFFTISSLQPEDIA TYYCQQYDNLP----- RFSGSGSGTDFFTISSLQPEDIA TYYCQQYDNLPITFGQGTRLEIK RFSGSGSGTDFFTINS LQPEDIATYYCQEYNNLPYSFGQGTKLEIK *****:***** |

Figure 9B

Dendrogram:



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Figure 10A

Alignment of sequences using VH6-1

| | CDR1 | CDR2 | CDR3 |
|-------------------------|--|------|------|
| VH6-1 | QVQLQQSGPGLVKPSQTLSLTCAISGDSVSSNSAAWNWIROSPSRGLEWLGRYYRSKWy | | |
| MCP1-1.4.1.1_HC | QVQAEQSGPGLVKPSQTLSLTCAISGDSVSSNSAAWNWIROSPSRGLEWLGRYYRSKWy | | |
| MCP1-1.14.1.1_HC | QVQAEQSGPGLVKPSQTLSLTCAISGDSVSSYSAAWNWIROSPSRGLEWLGRYYRSKWy | | |
| MCP1-3.14.1.1_HC | QVQAEQSGPGLVKPSQTLSLTCAISGDSVSSNSAAWNWIROSPSRGLEWLGRYYRSKWy | | |
| | | CDR2 | CDR3 |
| VH6-1 | NDYAVSVKSRTITINPDTSKNQFSLQLNSVTPEDTAVYYCAR----- | | |
| MCP1-1.4.1.1_HC | SDHAVSVRSRITIYPDTSKNQFSLQLNSVTPEDTAVYYCARDRISGTYVGMDVWGQGTTV | | |
| MCP1-1.14.1.1_HC | SDHAVSVRSRITIYPDTSKNQFSLQLNSVTPEDTAVYYCARDRISGTYVGMDVWGQGTTV | | |
| MCP1-3.14.1.1_HC | SDHAVSVRSRITIYPDTSKNQFSLQLNSVTPEDTAVYYCARDRISGTYVGMDVWGQGTTV | | |
| VH6-1 | --- | | |
| MCP1-1.4.1.1_HC | VSS | | |
| MCP1-1.14.1.1_HC | VSS | | |
| MCP1-3.14.1.1_HC | VSS | | |

Figure 10B

Dendrogram:

